

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P263543

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2108.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

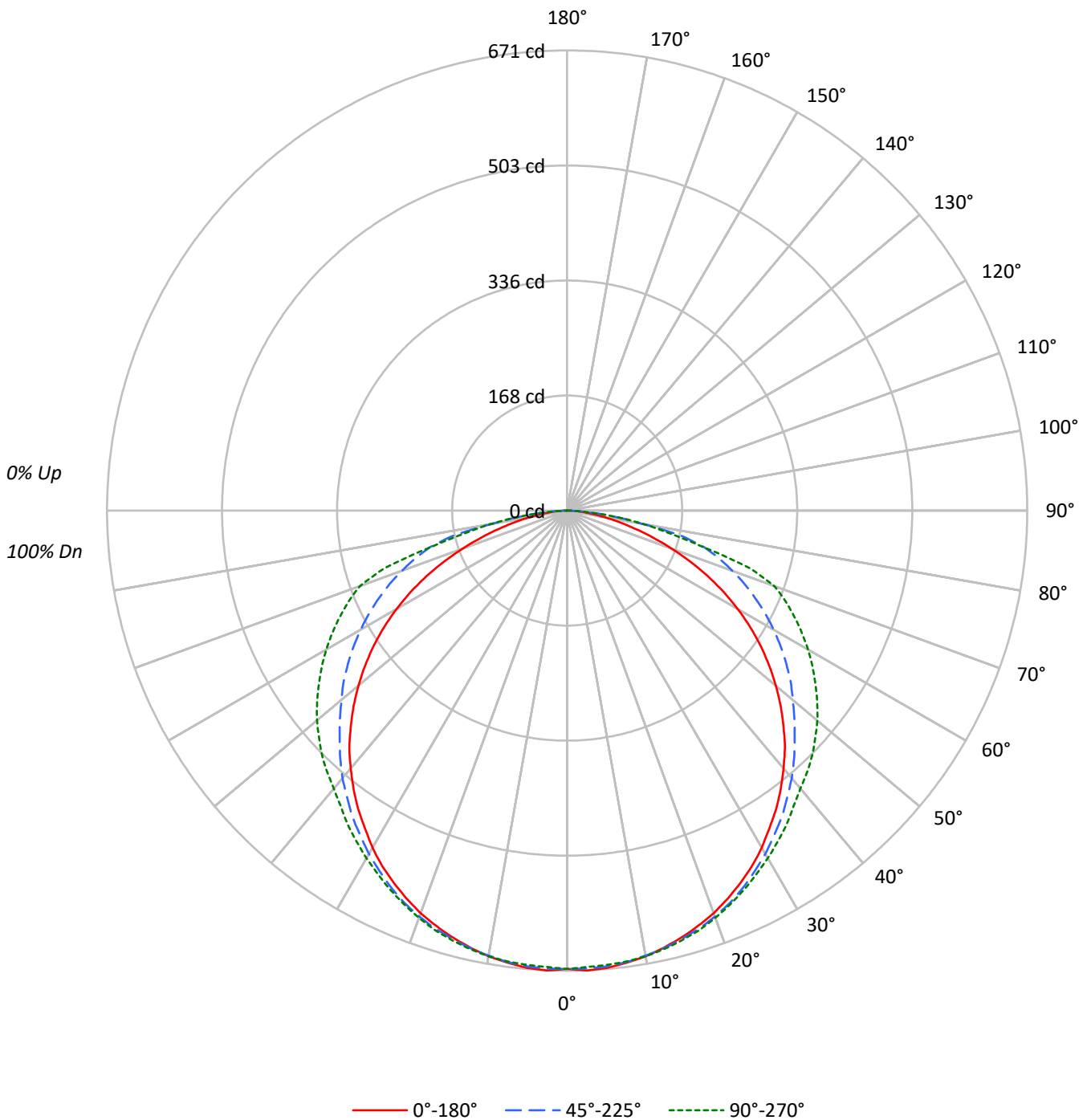
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	899	899	899
5°	904	901	898
10°	902	900	902
15°	898	901	903
20°	894	902	905
25°	889	901	906
30°	882	898	909
35°	873	896	917
40°	862	895	929
45°	849	892	961
50°	832	899	997
55°	808	915	1037
60°	773	935	1092
65°	720	965	1163
70°	637	1008	1266
75°	534	1079	1063
80°	426	852	884
85°	337	577	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.0
10°-20°	182.4	8.7
20°-30°	278.6	13.2
30°-40°	340.6	16.2
40°-50°	364.6	17.3
50°-60°	349.7	16.6
60°-70°	295.3	14.0
70°-80°	188.7	9.0
80°-90°	44.6	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	524.4	24.9
0°-40°	865.0	41.0
0°-60°	1579.4	74.9
0°-90°	2108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	669	665	667	666	665	64
15°	644	642	646	648	648	182
25°	599	598	607	609	610	276
35°	531	535	546	553	558	332
45°	446	454	469	491	505	344
55°	344	356	390	425	442	307
65°	226	248	303	346	365	223
75°	103	146	208	212	204	111
85°	22	36	37	36	34	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668.3	668.3	668.3	668.3	668.3
2.5°	671.4	667.2	668.3	668.3	666.2
5°	669.3	665.1	667.2	666.2	665.1
7.5°	665.1	662.0	664.1	664.1	663.1
10°	660.0	656.8	658.9	660.0	660.0
12.5°	652.7	650.6	653.7	653.7	654.8
15°	644.4	642.3	646.5	648.5	648.5
17.5°	635.0	634.0	639.2	640.2	641.3
20°	624.7	623.6	629.9	629.9	631.9
22.5°	612.2	611.2	619.5	619.5	621.6
25°	598.7	597.7	607.0	609.1	610.1
27.5°	584.2	583.2	592.5	595.6	597.7
30°	567.6	567.6	578.0	582.1	585.2
32.5°	548.9	552.0	561.4	567.6	571.8
35°	531.3	535.4	545.8	553.1	558.3
37.5°	511.6	515.7	527.1	536.5	542.7
40°	490.8	496.0	509.5	519.9	529.2
42.5°	470.1	475.2	489.8	505.3	517.8
45°	446.2	453.5	469.0	490.8	505.3
47.5°	422.3	429.6	449.3	476.3	490.8
50°	397.4	405.7	429.6	460.7	476.3
52.5°	371.5	380.8	410.9	444.1	459.7
55°	344.5	355.9	390.2	425.4	442.0
57.5°	316.5	328.9	369.4	406.8	424.4
60°	287.4	303.0	347.6	387.0	405.7
62.5°	257.3	276.0	325.8	366.3	386.0
65°	226.2	248.0	303.0	345.5	365.3
67.5°	194.0	223.1	280.2	324.8	344.5
70°	161.9	196.1	256.3	302.0	321.7
72.5°	131.8	171.2	232.4	275.0	279.1
75°	102.7	146.3	207.5	211.7	204.4
77.5°	76.8	121.4	171.2	152.5	151.5
80°	55.0	97.5	110.0	113.1	114.1
82.5°	36.3	73.7	71.6	73.7	72.6
85°	21.8	36.3	37.4	36.3	34.2
87.5°	10.4	13.5	10.4	9.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)